PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 068911-0151	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/US 06/30920	International filing date (day/mo 09 August 2006 (09.08.2006)	onth/year) (Earliest) Priority Date (day/month/year) 09 August 2005 (09.08.2005)
Applicant Metaproteomics, LLC		
according to Article 18. A copy is ben This international search report consist	ng transmitted to the international t	
the international ap a translation of the of a translation fur b. With regard to any nucle Certain claims were fou Unity of invention is lac With regard to the title, the text is approved as so	otide and/or amino acid sequence and unsearchable (see Box No. II)	, which is the language onal search (Rules 12.3(a) and 23.1(b)) e disclosed in the international application, see Box No. 1.
the text has been establic may, within one month 6. With regard to the drawings, a. the figure of the drawings to as suggested by the as selected by the as selected by the as selected by the selected by	from the date of mailing of this inte be published with the abstract is F	failed to suggest a figure

Form PCT/ISA/210 (first sheet) (April 2005)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 06/30920

A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - A01N 65/00; A61K 31/12 (2007.01) USPC - 424/775, 424/778; 514/690 According to International Patent Classification (IPC) or to both national classification and IPC					
					
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC(8) - A01N 65/00; A61K 31/12 (2007.01) USPC - 424/775, 424/778; 514/690					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched USPC - 424/757; 424/780					
Electronic da	ta base consulted during the international search (name of	data base and, where practicable, search ter	ms used)		
PubWEST (USPTO, PGPB, EPAB, JPAB); Google Patents; Google Scholar Search Terms: hops, humulone, lupulone, prenyfflavonoid, chalcone, xanthohumol, iscalpha acid, protein kinase, inflammation, cancer, diabetes, retinopathy, ocular, acacia catechu, acacia nilotica, vitamin, selenium, zinc, copper, lutein, zeaxanthin					
C. DOCUI	MENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.		
х	GERHAUSER, C. "Beer constituents as potential cancer Journal of Cancer, 13 June 2005, Vol. 41, pages 1941-	1-2, 4-6, 8-9, 17-18, 20-22, 24-25, and 34			
Y	2007.06.11]. [Retrieved from the internet: http://www.dkfz.de/en/tox/download/gerh/pdf-files/Europ	p.JCancer_41_1941-1954_2005.pdf]	3, 7, 10-16, 19, 23, and 26-32		
Y	US 2003/0180402 A1 (JIA et al.) 25 September 2003 (2 [0032], [0057]-[0060], and [0078].	10-12 and 26-28			
Y	VANHOENACKER, G. et al. *Analysis of iso-acids in beer by direct injection and liquid chromatography with ultraviolet absorbance detection or with mass spectrometry.* Journal of Chromatography A, 30 April 2004, Vol. 1035, No. 1, pages 53-61 [online]. [Retrieved on 2007.06.13]. [Retrieved from the Internet: http://www.sciencedirect.com/science/journal/00219673].				
Υ	COHEN, P. "Protein kinases: The major drug targets of the twenty-first century?" Nature Reviews: Drug Discovery, April 2002, Vol. 1, pages 309-315 [online]. [Retrieved on 2007.06.13]. [Retrieved from the internet: http://www.nature.com/reviews/drugdisc].				
Y	US 6,689,388 B2 (KUHRTS) 10 February 2004 (10.02.2004), col. 6, ln 19-25, and col. 8, ln 27-67.				
Y	GILANI, et al. "Studies on antihypertensive and antispasmoic activities of methanol extract of Acacia nilotica pods." Phytotherapy Research, 30 November 1999, Vol. 13, No. 8, pages 665-669 [online]. [Retrieved on 2007.06.12]. [Retrieved from the internet: http://www3.interscience.wiley.com/cgi-bin/abstract/67501841/ABSTRACT].				
Further documents are listed in the continuation of Box C.					
Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention					
"E" earlier application or patent but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive					
cited to special	cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is				
means "P" docum	means being obvious to a person skilled in the art "P" document published prior to the international filing date but later than "&" document member of the same patent family				
the priority date claimed Date of the actual completion of the international search Date of mailing of the international search report					
	15 June 2007 (15.06.2007) 0 3 AUG 2007				
Name and mailing address of the ISA/US Authorized officer:					
Mail Stop PC	Mail Stop PCT, Attn: ISA/US, Commissioner for Patents Lee W. Young				
1	Facsimile No. 571-273-3201 PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774				

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 06/30920

		1011000			
C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where appropriate, of the relev	ant passages	Relevant to claim No.		
Y	WO 03/082249 A1 (LANG) 9 October 2003 (09.10.2003), pg 14.		33		
Y	US 5,919,813 A (DE JUAN) 6 July 1999 (06.07.1999), col. 6, in 64 and col. 7	, in 1-8.	33		
8					
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